WHAT IS CLAIMED IS:

- A system for bypassing an aneurysm comprising a first prosthesis and at least one bypass prosthesis communicating with the first prosthesis, said first prosthesis comprising a proximal end configured to engage an unsuitable section of artery upstream of an aneurysm.
- 2. The system of claim 1 wherein the first prosthesis comprises a stent and a graft material communicating with the stent.
- The system of claim 1 wherein said first prosthesis comprises a
 proximal end comprising a first matrix comprising distally extending struts.
- The system of claim 3 wherein the struts form at least one geometric shape.
- The system of claim 3 wherein said first prosthesis further comprises at least one second matrix of struts positioned distally from said first matrix.
- The system of claim 5 wherein said second matrix is configured to receive at least one bypass prosthesis.
- The system of claim 6 wherein a proximal portion of said second matrix is configured to receive a proximal portion of said bypass prosthesis.
- 8. The system of claim 6 wherein said second matrix is configured to receive two bypass prostheses.
- The system of claim 3wherein the first matrix further comprises a distal portion configured to bridge a section of the artery unsuitable for anchoring the prosthesis.

- 10. The system of claim 9 wherein a section of the artery unsuitable for anchoring the prosthesis comprises at least one of a short length of artery, and angulated artery, a section of artery containing a junction with another artery, and combinations thereof.
- 11. The system of claim 1 wherein the first prosthesis comprises a stent comprising a first matrix and a second matrix and at least one longitudinally extending strut connecting the first matrix to the second matrix.
- The system of claim 11 further comprising a graft material configured to engage the second matrix.
- The system of claim 11 wherein the first matrix is configured to anchor the prosthesis in an artery.
- The system of claim 11 wherein at least one longitudinally extending strut comprises a plurality of struts.
- The system of claim 14 wherein the plurality of struts are straight.
- 16. The system of claim 14 wherein the plurality of struts include an intermediate section in which the struts are in close proximity to each other.
- 17. The system of claim 16 wherein the intermediate section comprises a joint.
- 18. The system of claim 16 wherein the intermediate section comprises a hinge.
- The system of claim 16 wherein the intermediate section comprises an axis.

- 20. The system of claim 16 wherein the intermediate section comprises a hub.
- 21. The system of claim 16 wherein the intermediate section is configured to allow the first prosthesis to bend.
- The system of claim 16 wherein the intermediate section is configured into an angle.
- The system of claim 22 wherein the angle is greater than about 45 degrees.
- The system of claim 5 further comprising an axis interposed between the first matrix and the second matrix.
- 25. The system of claim 24 wherein said axis is configured to position said first matrix at greater than about a 45 degree angle from said second matrix.
- 26. A method for bypassing an aneurysm comprising positioning a first portion of a first prosthesis in a first section of an artery, positioning a second portion of the first prosthesis in a second section of the artery, said second section being upstream or an aneurysm, and engaging at least one second prosthesis with the first prosthesis, said second prosthesis forming a fluid flow path that bypasses the aneurysm.
- 27. A system for bypassing an aneurysm comprising: a first prosthesis having a proximal end configured to engage a portion of an artery upstream of a cross-flow artery and a distal end configured as a sealing means; and
- at least one second prosthesis engaging the distal end of the first prosthesis.

28. A system for bypassing an aneurysm comprising:
a first prosthesis having a stent and graft material covering at least a portion of the stent; and

at least one second prosthesis engaging the first prosthesis for bypassing the aneurysm.